

# **NOTIFICATION OF ADDENDUM**

## **ADDENDUM NO. 2**

**DATED 8/06/2010**

<b>Control</b>	<b>0014-15-040</b>
<b>Project</b>	<b>NH 2011(328)</b>
<b>Highway</b>	<b>US 287</b>
<b>County</b>	<b>TARRANT</b>

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: NH 2011(328)

CONTROL: 0014-15-040

COUNTY: TARRANT

LETTING: 08/11/2010

REFERENCE NO: 0806

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

\_ BID INSERTS (SH. NO.:

X GENERAL NOTES (SH. NO.: C

\_ SPEC LIST (SH. NO.:

\_ SPECIAL PROVISIONS:

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS. SEE CHANGES BELOW.

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

GENERAL NOTES:

SHEET C: DELETED NOTE UNDER ITEM 341.

PLAN SHEETS:

SHEET 6B: REPLACED - GENERAL NOTES CHANGED AS ABOVE.

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\*\*\*\* Specification Data \*\*\*\*

Basis of Estimate

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Item	Description	Rate	Unit
341	Hot Mix (Ty D)	115 lb/SY/in	Ton

Surface Treatment Data:

\*\*\*\*\*

Two Course

Asph Type CRS-2P or CRS-1P (All Courses)

Rate 1st Crse: 0.3 gal/SY

2nd Crse: 0.40 gal/SY

Aggr Type PB (1st Course)

Grade 3 (1st Course)

Rate 1 CY/95 SY (1st Course)

Aggr Type PB (2nd Course)

Grade 4 (2nd Course)

Rate 1 CY/115 SY (2nd Course)

Note: The rates of application of asphalt and aggregate are for estimating purposes only and may be varied as directed by the Engineer.

**Special Notes:**

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Single lane closures, except as otherwise shown in the plans, will be restricted to off-peak hours as defined in the following table:

Peak Hours		Off-Peak Hours	
6 to 9 AM Monday through Friday	3 to 7 PM Monday through Friday	9AM to 3PM Monday through Friday	All day Saturday

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All work shall perform during day light hours only.

Any requests to work other hours shall have written approval of the Engineer before work can start .

On superelevated curves the shoulders shall have the same cross-slope as the pavement, unless otherwise indicated.

On superelevated curves where the grade line is in a sag or on flat grades, overlay the shoulders to the extent necessary to prevent trapping of water on the high side.

Take care that existing curb and curb and gutter is not discolored or damaged during construction operations. In the event of discoloration or damage, clean or repair as directed.

Remove the grass from the crown of shoulders or pavement edges by blading or other approved methods. Payment for this work will not be made directly but shall be considered subsidiary to the various items of the contract.

Provide temporary drain openings at all low points or other drainage structures, as required, at the Contractor's expense.

Remove any obstructions to existing drainage due to the contractor's operations, as required, at the Contractor's expense.

Contractor is allowed to work in only one direction at a time.

#### **Item 8. Prosecution and Progress**

Working days will be computed and charged in accordance with Article 8.3.A.1 Five- Day Workweek.

#### **Item 301. Asphalt Antistripping Agent**

Furnish a liquid antistripping agent unless directed.

#### **Item 305. Salvaging, Hauling, and Stockpiling Reclaimable Asphalt Concrete**

Stockpile all rap salvaged and not used for this project at the intersection of Harmon road and US 287 or as directed.

Build stockpiles between 10 and 15 feet in height with layers approximately 2 feet in depth.

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**Item 341. Dense-Graded Hot Mix Asphalt (QC/QA) WARM MIX HMAC**

The use of a **warm mix additive** is required on this project.

Include the approved mix design number on each delivery ticket.

Use only fractionated RAP on this project.

RAP aggregate must meet the requirements of Table 1.

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Provide aggregate with a Surface Aggregate Classification value of B for the surface course of the travel lanes.

Provide PG70-22 asphalt for the surface course.

Provide the PG70-22 asphalt with any of the following modification alternates:

- \*PG64-22 modified with SBS at the refinery.

- \*PG64-22 modified with SBR Latex at the Hot Mix Plant.

- \*AC-10 modified with SBR Latex at the Hot Mix Plant.

- \*PG64-22 modified with Crumb Rubber and Vestenamer (TOR) at the Hot Mix Plant.

When modified at the Hot Mix Plant, provide the PG 64-22 or AC-10 refinery certification.

Furnish a CSS-1P with greater than 50% asphalt residue for the tack coat on this project.

Use the boil test, test method TEX-530-C, and provide only mixes that produce zero percent (0%) stripping for design verification and during production.

Place mixture when the roadway surface temperature is equal to or higher than the temperatures listed in Table 11A unless otherwise approved or shown on the plans. Measure the roadway surface temperature with a handheld infrared thermometer. The Engineer may allow mixture placement to begin prior to the roadway surface reaching the required temperature requirements if conditions are such that the roadway surface will reach the required temperature within 2 hrs. of beginning placement operations. Unless otherwise shown on the plans, place mixtures only

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when weather conditions and moisture conditions of the roadway surface are suitable in the opinion of the Engineer.

**Table 11A**  
**Minimum Pavement Surface Temperatures**

	Minimum Pavement Surface Temperatures in Degrees Fahrenheit	
High Temperature Binder Grade	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
PG 70	55 <sup>1</sup>	60 <sup>1</sup>
PG 76	60 <sup>1</sup>	60 <sup>1</sup>

Note 1: Contractors may pave at temperatures 10°F lower than the values shown in Table 11A when utilizing a paving process or equipment that eliminates thermal segregation. In which cases, the contractor must use either an infrared bar attached to the paver, or a hand held thermal camera, or a hand held infrared thermometer operated in accordance with Test Method 244-F to demonstrate to the satisfaction of the engineer that the uncompacted mat has no more than 10°F of thermal segregation.

Use an Evotherm DAT Warm Mix Asphalt (WMA), a SASOBIT WMA, or an Advera WMA product additive for all mix applications. Delivery temperature shall be a maximum of 235° F. Delivery and roll out temperatures will be modified by the supplier and accepted by the engineer. All work related to WMA product additives is subsidiary to this item.

To produce an Evotherm WMA, the mix production facility will receive Evotherm DAT Concentrate from the concentrate supplier or via an authorized representative of either supplier. Evotherm DAT Concentrate, a chemical solution, is metered into the asphalt line at a rate of 5.26% by asphalt weight. Evotherm DAT Concentrate contains approximately 15% Evotherm chemistry and 85% water. The Evotherm DAT supplier will provide the delivery pump, if necessary.

To produce a SASOBIT WMA, the mix production facility will receive SASOBIT from the solution supplier. SASOBIT is metered into the asphalt line at a rate of 1.5% by weight of total binder content.

To produce a Rediset WMX WMA, preblend with the asphalt or dose into the mixing drum via the RAP belt or port. Use 1.5% or 2.0% by weight of asphalt dependent upon the mix type.

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To produce an Advera WMA, the mix production facility will receive Advera from the solution supplier. Advera is added into the mixing drum at a rate of 0.25% by weight of mix to create a foaming effect in the binder. Advera WMA is a synthetic zeolite (hydrated aluminosilicate, containing 18-21% water).

An authorized representative of the WMA product additive supplier shall be present onsite during the first day of asphalt placement.

#### **Item 351. Flexible Pavement Structure Repair**

Use the appropriate Department Excel templates to calculate and record all test data. These most recent updated forms are available on the Department's website at [www.txdot.gov/txdot\\_library/consultants\\_contractors/forms/site\\_manager.htm](http://www.txdot.gov/txdot_library/consultants_contractors/forms/site_manager.htm) under the SiteManager tab. Submit test results within 24 hours of test completion by email or CD.

#### **Item 361. Full Depth Repair of Concrete Pavement**

Include the approved mix design number on each delivery ticket.

Use the appropriate Department Excel templates to calculate and record all test data. These most recent updated forms are available on the Department's website at [www.txdot.gov/txdot\\_library/consultants\\_contractors/forms/site\\_manager.htm](http://www.txdot.gov/txdot_library/consultants_contractors/forms/site_manager.htm) under the SiteManager tab. Submit test results within 24 hours of test completion by email or CD.

Repair areas identified by the Engineer. Make repair areas rectangular, at least 6 ft. long and at least a full lane in width.

Broom-finish, the concrete surface unless otherwise shown on the plans.

Use Class **HES** concrete. Provide a fine aggregate with a fineness modulus between 2.60 and 2.80 as determined by TEX-402-A.

Schedule work so that full-depth saw cutting and concrete placement is complete and open to traffic prior to the end of the work day.

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**Item 421. Hydraulic Cement Concrete**

Include the approved mix design number on each delivery ticket.

Use the appropriate Department Excel templates to calculate and record all test data. These most recent updated forms are available on the Department's website at [www.txdot.gov/txdot\\_library/consultants\\_contractors/forms/site\\_manager.htm](http://www.txdot.gov/txdot_library/consultants_contractors/forms/site_manager.htm) under the SiteManager tab. Submit test results within 24 hours of test completion by email or CD.

The strength testing equipment for concrete will be capable of producing an electronic printout of the test results.

Air entrainment requirements are waived for all classes of concrete except all Class S and all Class P Concrete.

Concrete will not be rejected for low air content. Adjustment to the dosage of air entrainment will be as directed or allowed by the Engineer.

**ITEM 454.**

For header-type expansion joints, the following systems are approved:

SSI-XJS  
RICHARD WATERS  
4021 BENBROOK HIGHWAY  
FORT WORTH, TEXAS 76116  
(817) 731-7890

WATSON BOWMAN-ACME  
RONALD POLEON  
102 ENFIELD TRACE  
WOODSTOCK, GEORGIA 30189  
(770) 592-9021

**Item 502. Barricades, Signs, and Traffic Handling**

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

Any sign not detailed in the plans but called for in the layout shall be as shown in the current "Standard Highway Sign Designs for Texas".



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When traffic is obstructed, arrange warning devices in accordance with arrangements indicated in the latest edition of the "Texas Manual on Uniform Traffic Control Devices".

Cover or remove any work zone signs when work or condition referenced is not occurring.

When directed by the Engineer, the contractor shall provide uniformed off-duty City of Fort Worth police and City of Fort Worth Police Department patrol cruisers during any work that requires a lane to be closed. The number of units and duration of use will be determined in the field by the Engineer. This work will be paid for by "Contractor Force Account of Agreed Unit Price".

#### **Item 504. Field Office and Laboratory**

Furnish the following structure for this project:

<u>Type</u>	<u>No.</u>
Field Lab (Ty. A)	1
Field Lab (Ty. D)	1

Furnish the following for the Field Office structure:

<u>Item</u>	<u>No.</u>
Desktop Microcomputer	1
Internet Service	1
Wireless Router	1
Printer *	1
Desks (minimum)	2
Chairs (minimum)	6
Four drawer locking metal filing cabinet	1
Lockable 3'x3' floor space storage closets	2
Refrigerator (minimum 10 cu ft)	1
Microwave Oven	1
Water Cooler with Hot & Cold Dispenser	1
Weekly Janitorial Service	1

The field office structure and its contents will be subject to approval by the Engineer prior to beginning work.

The field office structure with all appurtenances will become the property of the contractor once the project is complete and accepted by the Engineer.

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\* Integrated printer/copier/scanner/fax units will be permitted

**Item 506. Temporary Erosion, Sedimentation, and Environmental Controls**

The SW3P for this project shall consist of using the following items as directed:

- a. Temporary sediment control fence

Remove accumulated sediment and/or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

**Item 585. Ride Quality for Pavement Surfaces**

Use Surface Test Type B pay adjustment schedule 2 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

**Item 6834. Portable Changeable Message Signs**

All portable changeable message signs and arrow panels are to be provided with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

Two electronic portable changeable message sign unit(s) will be required. Individual or collective use of signs will be required by Engineer when deemed necessary to supplement the traffic control plan.

Each sign shall be programmed in its permanent memory the following 15 messages:

1. Ramp Closed Ahead
2. Use Other Routes
3. Right Lane
4. Left Lane
5. Closed Ahead
6. Two Lane
7. Detour Ahead
8. Thru Traffic
9. Prepare To Stop
10. Merging Traffic

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11. Expect 15 Minute Delay
12. Max Speed \*\* MPH
13. Merge Right
14. Merge Left
15. No Exit Next \*\* Miles

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